CELL APPLICATIONS, INC.

RECOMBINANT PROTEINS

Mouse Macrophage Inflammatory Protein-1 alpha

SIZE	CAT. NO.
10 ug	RP2042-10
100 ug	RP2042-100
1000 ug	RP2042-1000

BACKGROUND

Macrophage Inflammatory Protein-1 alpha (MIP-1α), also known as CCL3, is produced by macrophages and is thought to induce inflammatory responses, including superoxide production by neutrophils. MIP-1α can exist as a naturally occurring heterodimer with MIP-1β and has been shown to have antiviral activity against HSV-1.

Recombinant mouse MIP-1α is a non-glycosylated protein, containing 69 amino acids and having a molecular mass of 7.8 kDa.

Alternative Names:
CCL3, LD78α

Amino Acid Sequence:
APYGADTPTA CCFSYSRKIP RQFIVDYFET SSLCSQPGVI FLTKRNRQIC ADSKETWVQE YITDLELNA

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
Recombinant mouse MIP-1α is lyophilized with no additives.

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The activity is calculated by the ability to chemoattract of Balb3/C splenocytes at 1-10 ng/ml.